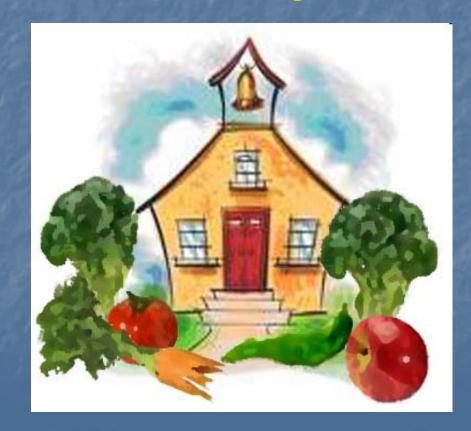
#### Challenges Benefits and Essential Factors to Implementing a Recess Before Lunch Schedule in Montana Elementary Schools

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202 Romney Gym

http://www.opi.mt.gov/schoolfood/index.html

#### What is Recess Before Lunch?

Kids <u>Play</u>, And Then <u>Eat!</u>









## Our Research... two stages

2002-03 pilot project with four school sites

2008 on-line principal survey



## Project Design of Pilot Project

#### Purpose:

- To determine change in food waste
- To determine acceptance and effectiveness as perceived from school staff and students

#### Design:

- 4 elementary schools in Montana (2- grades K-2; 1 grades K-8; 1-grades 5-8)
- Spring 2002 through Spring 2003
- Three phases- in each phase conducted plate waste study, student focus group, staff surveys

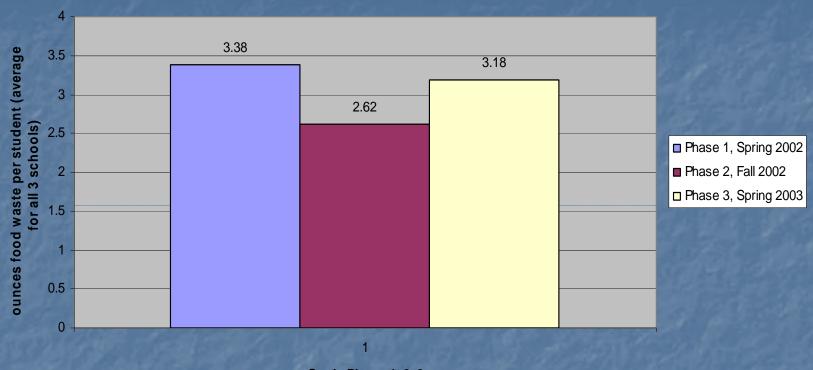
#### Project Design...Plate Waste

- Data is based on three of the four schools.
- •The menu and portion size was consistent within each school throughout the 3 phases
- •Food waste collected included food from school nutrition program meals, foods brought from home or other school venues
- •The total amount of food and beverage waste was measured in pounds and ounces.
- Average student waste was calculated by total waste by total daily attendance.
- •Plate waste days were unannounced to students and staff.

#### 3 Phases of Data Collection

- Phase 1: conducted Spring 2002, PRIOR to the school implementing RBL
- Phase 2: conducted Fall 2002, after the initial implementation of RBL
- Phase 3: conducted Spring 2003, after the RBL policy had been in use for one year.

#### Average Food Waste Per Student



Study Phase 1, 2, 3

Implications: This study demonstrates the decrease in food waste per student as a result of implementing a Recess Before Lunch policy.

Source: Montana Office of Public Instruction School Nutrition Programs Recess Before Lunch Pilot Study, data from 3 Montana schools, April 2002-May 2003.

## Average Beverage Waste Per Student



Study phase 1, 2, 3

Implications: This study demonstrates the decrease in beverage waste per student as a result of implementing a Recess Before Lunch policy.

Source: Montana Office of Public Instruction School Nutrition Programs Recess Before Lunch Pilot Study, data from 3 Montana schools, April 2002-May 2003.

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# Results... Student Focus Groups and Staff Surveys/Comments

- Students accepted the change
- Improvements in cafeteria atmosphere
- Dramatic improvement in discipline problems on the playground and classroom.
- Children returning to classroom more settled, calmer and ready to learn.
- Gain in teaching time reported by teachers in morning and afternoon.

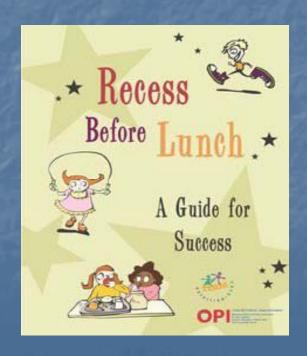
## Results... Challenges

- Scheduling
- Staff buy-in and involvement
- Hand washing
- Meal payment plan
- Handling winter clothing and cold lunch storage

### Important Resource...

Recess Before Lunch: A Guide for Success

http://www.opi.mt.gov/schoolfood/recessBL.html



## Phase 2 of our research..... 2008 Survey of Principals

#### **Purpose:**

- To gain information to further provide technical assistance to MT schools on RBL
- To evaluate the long-term outcomes of RBL
- To collect data on the rates of RBL and implementation factors in MT schools
- To reconfirm the benefits of RBL as a school wellness strategy with schools in MT and the nation

#### Design:

 Statewide on-line survey of principals in K-8 public and private schools in Montana

### Project Design...Survey

#### Development of Survey:

- •An initial draft of the survey was developed and was field tested with five Montana principals.
- •A final version was developed based on feedback from pilot survey phase
- •The survey form contained both closedoption items and open-ended questions.
- Distribution: In January 2008, OPI sent out a message

### **Project Design...Survey**

#### Survey Design and Questions:

- •Survey questions were organized in a branching structure for the three targeted groups of administrators which included the following:
  - •Administrators currently using a RBL schedule
  - •Administrators who used a RBL schedule in the past but not currently using it.
  - •Administrators that have never used a RBL schedule
- •Other questions included: school enrollment size and grade levels served; length of time utilizing RBL, grade levels involved in RBL, observed benefits, challenges and facilitative factors,.
- Open ended questions asked for feedback from stakeholders and any advice for other principals on RBL

### Project Design...Survey

#### Distribution of Survey:

- In January 2008, OPI sent out a message to school K-8 school principals with a link to the survey. One reminder email was sent out within the three-week distribution period.
- A door prize of a \$100 mini grant was offered as an incentive to principals to respond to the survey.

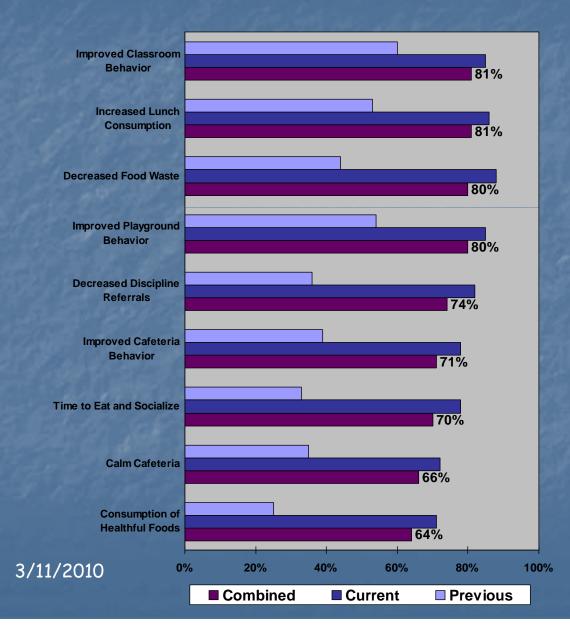
#### Project Design...Results

#### Data Collection and Analysis:

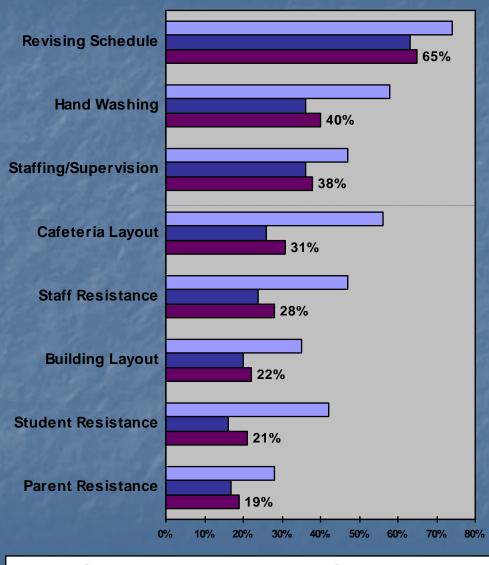
- •Response rate was 30% (195 out of 661)
- •Responses were downloaded to Key Survey data-base and entered into SPSS (Version 16) for analysis
- •Item response frequencies were calculated two ways, both including and excluding "Not Sure" values. The tables on the following slides exclude the Not Sure values.
- •Each response was coded by the targeted group; combined responses are current and previous users.

Responses were categorized according to common themes

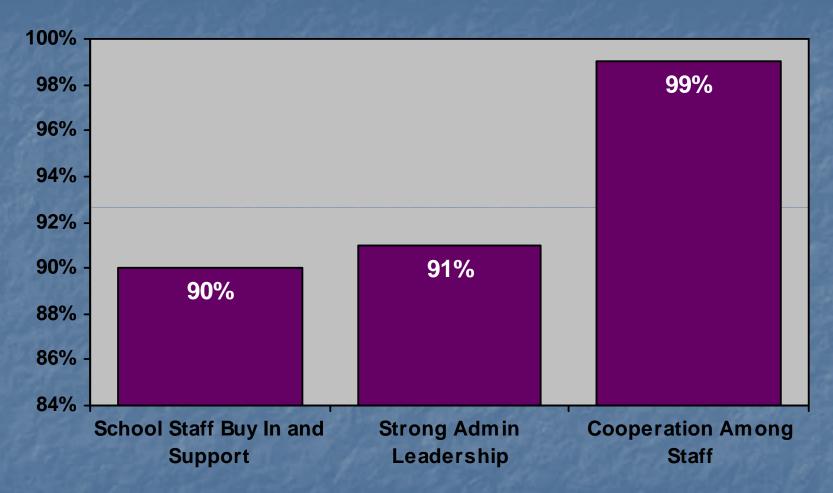
### Benefits Reported by Principals



## Challenges Reported by Principals



### Results - Facilitated Factors for Success



<u>Note</u>: Percentages reflect respondents who expressed a definite opinion (exclude *Not Sure* responses).

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### Suggestions for Successful RBL Implementation

- Plan ahead; obtain buy in and support from school staff.
- Involve students, parents, and school staff in planning efforts.
- Start with a limited pilot program or trial period monitor and adjust as needed.

Be prepared to address challenges before implementing RBL.

- Have a plan to address:
  - 1. hand washing
  - 2. scheduling of lunch times and eating spaces
  - 3. supervision issues
  - 4. cafeteria, playground and hallway flow patterns

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## The Benefits to a RBL Schedule are Worth Overcoming the Challenges







Enhances nutrition, learning and behavior

# Important Resource... 2008 Survey Final Report

Challenges, Benefits and Essential Factors for Success in Implementing a Recess Before Lunch Schedule in Montana Elementary Schools

http://www.opi.mt.gov/schoolfood/recessBL.html

## Recess Before Lunch: Right for So Many Reasons



"Children are settled down and ready to learn when they return to the classroom" ...MT teacher

We are seeing less food waste, better behavior on the playground and in afternoon classes" ... MT principal

#### Areas of Future Efforts & Research

#### Training and Technical Assistance:

- Publish research in peer reviewed journal and articles in school publications
- Development of RBL mentor network
- Develop additional hand washing and scheduling tools to guide

#### Research:

- •Relationship between amount of time students have to eat and the scheduling of recess before or after lunch
- •The impact of a recess before lunch schedule on the amount of physical activity minutes per day

## Big Picture Message

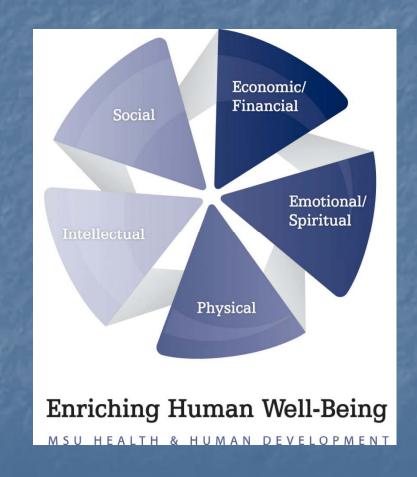
School Meals Serve Education Each Day
 Children must be well nourished to be ready to learn and behave well during the school day.

#### Impact on Human Well Being

How school meals are designed will affect not only student food consumption levels but impact the development of healthy eating habits and a student's relationship with food.

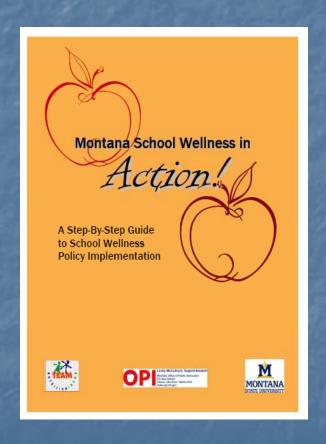
## Recess Before Lunch links to Enriching Human Well Being

- Improves consumption of healthy foods
- Allows for better social interaction and relaxed eating environment
- Is a cost neutral step and may decrease food costs
- Supports development of healthy eating habits



## Recess Before Lunch is a School Wellness Policy Strategy

Increased awareness and commitment to nutrition and student wellbeing



http://www.opi.mt.gov/schoolfood/wellness.html

#### **Questions?**

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Shelly Sutherland, Ed.D MT NAPA –Program Evaluator

http://www.opi.mt.gov/schoolfood/recessBL.html